

ML106 Preliminary Product Description

ML106: Ring core based Inductor with distributed air gap for use in Output Filter on Mueta Amplifier reference design MR2200

The ML106 is one of the two inductor coils required for the Mueta output filter. This product description provides typical mechanical and electrical parameters. This device is custom designed and manufactured for use in the Mueta audiophile amplifier solution. Two of these coils are required for a complete output filter.

Fig 1 ML106 Schematic

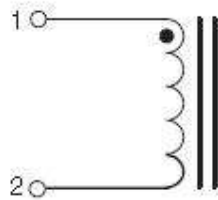
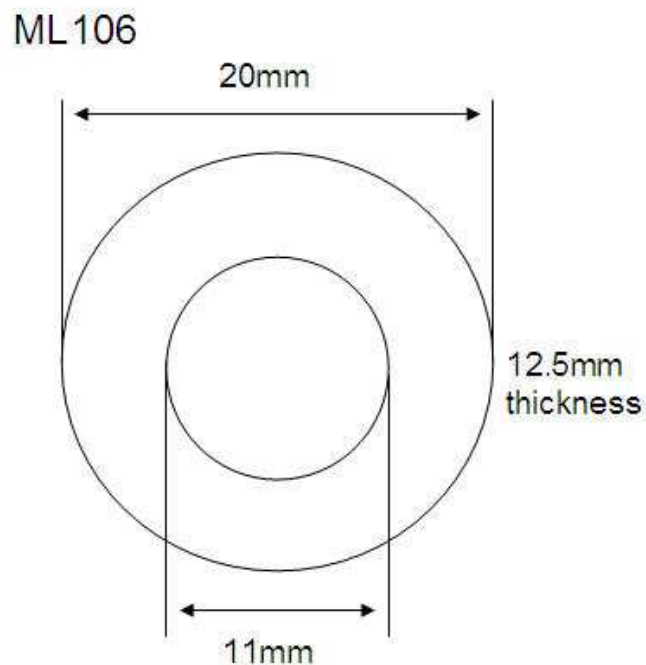


Fig 2 ML106 Core Dimensions (typical)





Specification

Material: Ni/Zn
Number of windings: 26

Electrical and Magnetic Characteristics (Note 1,2)

SYMBOL	PARAMETER	TEST CONDITION	Min.	Typ.	Max.	Unit
				Note 4	Note 3	
P_{max}	Max audio power				200	W
A_L	Inductance Air Gap			17.9		uH
L_{12}	Inductance 1 to 2			12		uH
$I_{winding}$	Winding Current				10	A
D_{wind}	Wire thickness			0.8		mm

Operating Ratings (Note 1,2)

Tstg	Storage Temperature	-50 to 150	°C
Tamb	Operating Free-air Temperature Range	-40 to 85	°C

Notes

Note 1: "Absolute Maximum Ratings" indicate limits beyond which damage to the device may occur, including inoperability and degradation of device reliability and/or performance. Functional operation of the device and/or non-degradation at the Absolute Maximum Ratings or other conditions beyond those indicated in the Recommended Operating Conditions is not implied. The Recommended Operating Conditions indicate conditions at which the device is functional and the device should not be operated beyond such conditions. All voltages are measured with respect to the ground pin, unless otherwise specified.

Note 2: The Electrical Characteristics tables list guaranteed specifications under the listed Recommended Operating Conditions except as otherwise modified or specified by the Electrical Characteristics Conditions and/or Notes. Typical specifications are estimations only and are not guaranteed.

Note 3: Datasheet min/max specification limits are guaranteed by test or statistical analysis.

Note 4: Typical values represent most likely parametric norms at $T_A = +25^\circ\text{C}$, and at the Recommended Operation Conditions at the time of product characterization and are not guaranteed.



Mueta BV

Notes

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MUETA B.V.
Parallelweg 2a
4261GA Wijk en Aalburg
The Netherlands
Phone +31 416 699040